



Type(s)

Project

Date

Notes

## OVERVIEW

### Fixture Overview

SolaFrame 1000 fixture is the go-to workhorse automated framing fixture for lighting designers. With 20,000 lumen output, full framing shutters, rotating and fixed gobo wheels, a redesigned CMY and CTO color mixing system, replaceable color wheels, and animation effects. It has a feature set as varied as your lighting designs. The SolaFrame 1000 is a star performer in all professional production environments.

### Applications

- Arenas and stadiums
- Concert halls and performing arts centers
- Film and television broadcast studios
- Megachurches and houses of worship
- Nightclubs and special events

### Product Features

- White LED Engine
- 480 W Ultra-Bright engine producing 20,000 field lumens or a High CRI Engine featuring incredibly accurate color rendering
- Full framing shutter system
- CMY/CTO-Linear color mixing system
- Six plus open position replaceable color wheel
- Iris and Light Frost
- Rotating Prism
- Sharp edge focus throughout 12°–40° zoom range
- Eight position plus open Fixed Gobo Wheel with interchangeable gobos
- Seven position plus open Rotating Gobo Wheel with interchangeable gobos
- Continuously rotating variable Animation Wheel
- TM-30 Filter boosts Ultra-Bright engine to 85+ CRI
- Patented Lens Defogger

## ORDERING INFORMATION

### SolaFrame 1000

Model	Description
2570A1200-B	SolaFrame 1000 fixture, Ultra-Bright, black, with Molded Rubber Insert
2570A1201-B	SolaFrame 1000 fixture, High CRI, black, with Molded Rubber Insert

**Color Options:** Fixtures ship standard in black. White available by request.

**Included Accessories:** Fixture includes two (2) 180 mm Single-hole Omega brackets, one (1) fixture power cord, bare ends to powerCON® TRUE1® TOP input, and a safety cable.

### Accessories

Model	Description
2560B7009	Fixture Power Cord upgrade, 5-15 Edison to powerCON TRUE1, 15 A
2560B7005	Fixture Power Cord upgrade, Stage Pin to powerCON TRUE1, 20 A
2560B7006	Fixture Power Cord upgrade, L6-20 to powerCON TRUE1, 20 A
2560B7007	Fixture Power Cord upgrade, L5-20 to powerCON TRUE1, 20 A
67040007	MegaClaw™
55040014	Cheeseborough 2" Alloy 1/2 Coupler Truss Clamp
67040010	Mini-Claw™



## PRODUCT SPECIFICATIONS

## Source

Engine	Ultra-Bright White Engine	High CRI White Engine
LED Details	480 W	480 W
Max Field Lumens	20,000 lumens	16,000 lumens
LPW	42 lumens per watt	33 lumens per watt
LED Life	50,000 hours	50,000 hours
Native CCT	6700 K	5700 K
Transferable Light Engine	Yes	Yes

## Color

Color Mixing	Cyan, magenta, yellow, CTO-Linear
Color Temperature	Variable down to 2800 K
Color Wheel	Six (6) interchangeable dichroic chips plus open includes TM-30 Filter standard

## Optical

Beam Angle Range	12°–40°
Gate Size	25 mm (1 in)
Aperture Size	108 mm (4.25 in)
Pattern Projection	Rotating and indexable wheel with seven (7) patterns plus open Fixed wheel with eight (8) patterns plus open
Animation	Rotating animation wheel LED branch animation
Prism	Three-facet rotating and indexable prism Additional accessories available
Frost	Light frost Additional accessories available
Iris	16-blade iris
Framing	Four-plane, full-curtain framing system with 90° module rotation
Flicker Control/Hz Range	100 Hz, 2.4 kHz, or 16 kHz

## Control

Input Method	DMX (5-pin) or Ethernet
Protocols	DMX via RS-485 Art-Net or sACN via Ethernet
Ethernet Pass-Thru	Passive Ethernet in and thru with and without power
Data Conversion	Patented data conversion system for: DMX to Ethernet Ethernet to DMX
Modes (Footprint)	One (48)
RDM Functions	Yes
UI Type	Full color graphical UI with 6 button navigational control
Local Control	Yes
Dimming Performance	16-bit, DMX controlled

## Electrical

Voltage Range	100–240 VAC, 50–60 Hz
Input Method	powerCON TRUE1
Wattage (Standard/+Defogger)	917 W / 958 W
Current (Max)	9.6 A @ 100V
Inrush (first half-cycle)	120 V: 53.6 A 230 V: 108 A

## Thermal

Ambient Operating Temp	-10°–45° C (14°–113° F)
Fan Mode	Three modes: Standard, Studio, and Continuous
Stationary Noise	Standard - 42.8 dBA Background noise measured at 39.5 dBA
Lens Defogging	Patented Lens Defogger included

## Physical

Pan and Tilt Range	540° pan, 265° tilt
Max Pan/Tilt Speed	2.1 sec for 360°, 1.2 sec for 180°
Materials	Steel and aluminum frame with molded plastic covers
Color Options	Black, white by request
Mounting Options	Any orientation
IP Rating	IP20
Weight	31.3 kg (69.9 lb)
Included Accessories	powerCON TRUE1 TOP to bare end fixture tail Two (2) 180 mm Single-hole Omega brackets Safety cable

## Warranty

Fixture Warranty	Two (2) year for complete fixture Five (5) year for light engine
Warranty Details	<a href="http://highend.com/warranty">highend.com/warranty</a>

## Regulatory &amp; Compliance

Regulatory Standards	Listed to UL 1573 Certified to CSA STD. C22.2 No: 166 CE EAC
CE compliance declared to these standards	Safety: EN 60598-1, EN 60598-2-17 EMC: EN 55015, EN 61547, EN 61000-3-2, EN 6100-3-3
Complies to the ROHS directive	Yes

## Safety

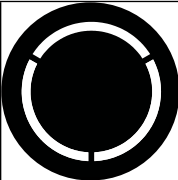
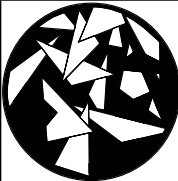

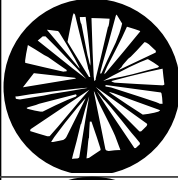
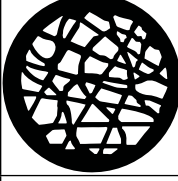
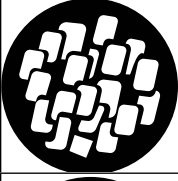
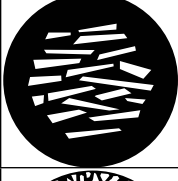
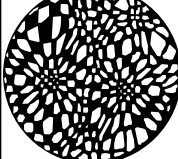
Safety	Minimum distance to illuminated surface = 2.0 m (6.5 ft) Minimum distance from fixture head to combustible materials = 0.1 m (0.33 ft)
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Note: All LED sources experience some lessening of light output and some color shift over time. LED output will vary with thermal conditions. Thermal conditions can be affected by ambient temperatures and orientation.

## OPTICAL INFORMATION

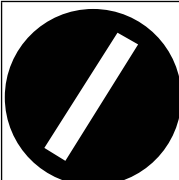

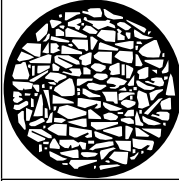
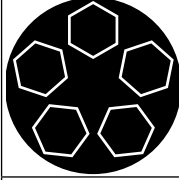
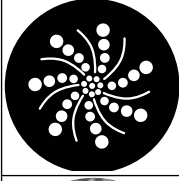
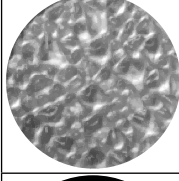
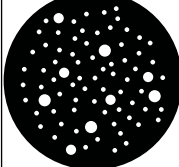
## Fixed Gobo Details

Outside Diameter	30 mm (1.18 in)
Image Diameter	24 mm (0.95 in)
Materials	0.5 mm Aluminum

	1 - Tunnel
	2 - Triangles
	3 - Organic
	4 - Shatter
	5 - Abstract
	6 - Cobble
	7 - Endgrain
	8 - Warped

## Rotating Gobo Details

Outside Diameter	30 mm (1.18 in)
Image Diameter	24 mm (0.95 in)
Materials	0.5 mm aluminum 1.1 mm glass Borofloat®

	1 - Bar
	2 - Stripe Strips
	3 - Fracked
	4 - Starvolver
	5 - Pinwheel Dots (Magnetically Indexed Adaptor)
	6 - Ice
	7 - Shower

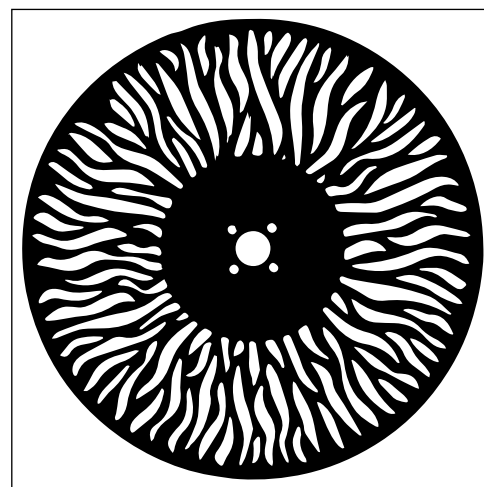
## Color Wheel Details

Shape	Interchangeable wedge
Materials	1.1 mm glass Borofloat

	1 - Red
	2 - Blue
	3 - Green
	4 - TM-30
	5 - Orange
	6 - Dark Blue

## Animation Wheel Details

Movement	Bi-directional continuous rotation
Materials	0.6 mm aluminum



## PHOTOMETRIC INFORMATION

## SolaFrame 1000 - Ultra Bright

	Degree	Candela	Field Lumens	Power Usage	Lumens Per Watt
Narrow	12	607,900	18,000	480 W	37
Medium	30	113,400	20,000	480 W	41
Wide	40	78,600	20,000	480 W	41
Wide w/ Frost	42	62,880	16,000	480 W	33

## Narrow - 12°

Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	2.1 ft 0.65 m	3.1 ft 0.97 m	4.2 ft 1.29 m	5.3 ft 1.61 m	39.6 ft 12.1 m
Illuminance (fc)	6,079	2,733	1,537	984	18
Illuminance (lux)	65,400	29,400	16,538	10,584	186

## Medium - 30°

Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	5.3 ft 1.64 m	8.0 ft 2.46 m	10.7 ft 3.27 m	13.4 ft 4.09 m	101.1 ft 30.83 m
Illuminance (fc)	1,023	455	256	164	3
Illuminance (lux)	12,198	5,421	3,050	1,952	34

## Wide - 40°

Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	7.3 ft 2.22 m	11.0 ft 3.33 m	14.6 ft 4.44 m	18.2 ft 5.55 m	137.3 ft 41.87 m
Illuminance (fc)	786	350	197	126	3
Illuminance (lux)	8,450	3,756	2,112	1,352	24

## SolaFrame 1000 - High CRI

	Degree	Candela	Field Lumens	Power Usage	Lumens Per Watt
Narrow	12	405,300	14,500	480 W	25
Medium	30	75,606	16,000	480 W	31
Wide	40	52,100	16,000	480 W	31
Wide w/ Frost	42	41,680	13,000	480 W	25

## Narrow - 12°

Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	2.1 ft 0.65 m	3.1 ft 0.97 m	4.2 ft 1.29 m	5.3 ft 1.61 m	39.6 ft 12.1 m
Illuminance (fc)	4,053	1,801	1,014	649	12
Illuminance (lux)	43,600	19,378	10,900	6,976	123

## Medium - 30°

Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	5.3 ft 1.64 m	8.0 ft 2.46 m	10.7 ft 3.27 m	13.4 ft 4.09 m	101.1 ft 30.83 m
Illuminance (fc)	682	303	171	110	2
Illuminance (lux)	8,132	3,614	2,033	1,301	22

## Wide - 40°

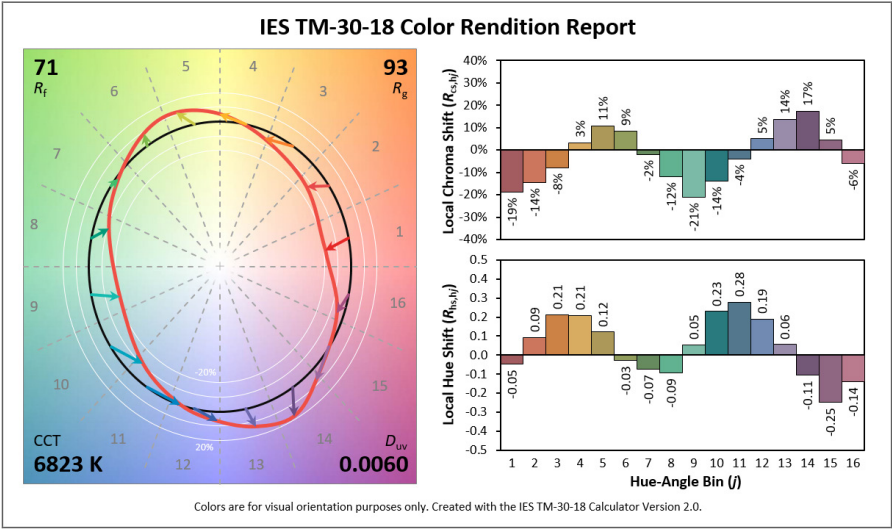
Throw Distance	10 ft 3.0 m	15 ft 4.6 m	20 ft 6.1 m	25 ft 7.6 m	188.7 ft 57.5 m
Field Diameter	7.3 ft 2.22 m	11.0 ft 3.33 m	14.6 ft 4.44 m	18.2 ft 5.55 m	137.3 ft 41.87 m
Illuminance (fc)	521	232	131	84	2
Illuminance (lux)	5,600	2,489	1,400	896	16

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

Metric conversions: For meters, multiply feet by 0.3048.  
For lux, multiply footcandles by 10.76.

COLOR METRIC INFORMATION

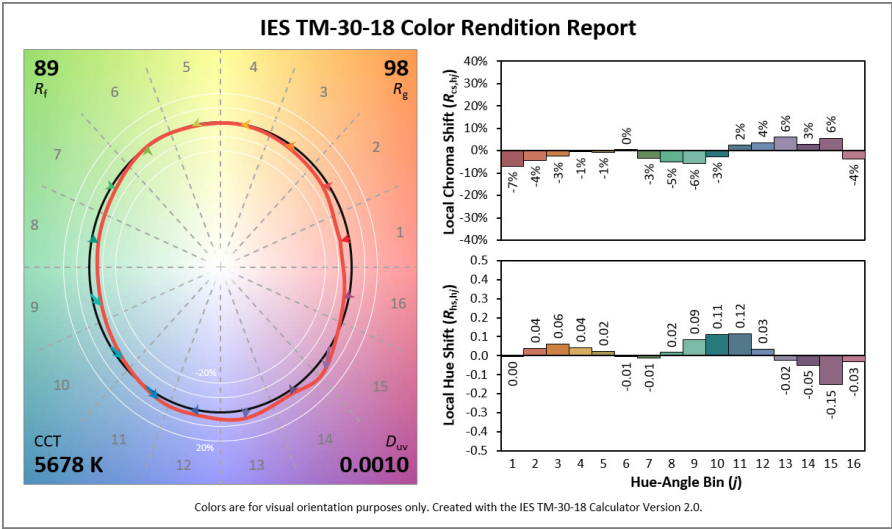
Ultra-Bright Engine



Additional Color Metrics

SolaFrame 1000 Ultra-Bright Engine	
CRI $R_a$ ( $R_g$ )	70 (-39.5)
TLCI	47

High CRI Engine



Additional Color Metrics

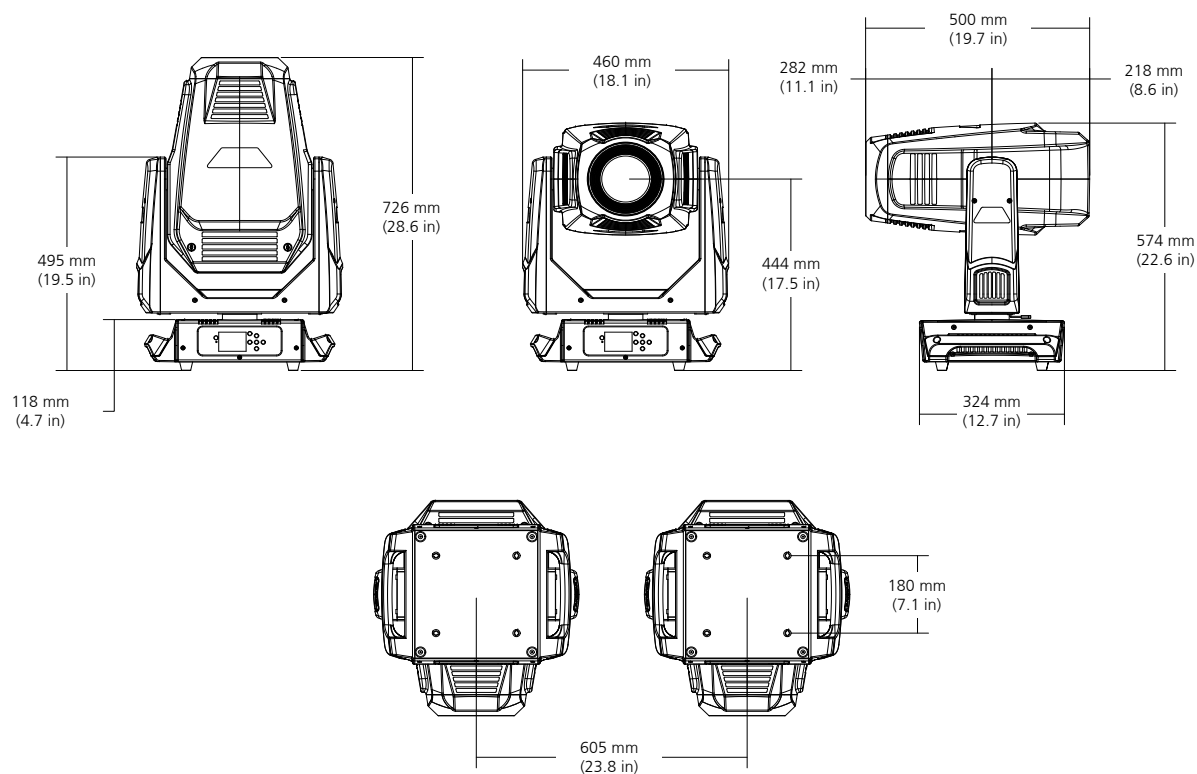
SolaFrame 1000 High CRI Engine	
CRI $R_a$ ( $R_g$ )	90 (52.6)
TLCI	89

## PHYSICAL INFORMATION

## SolaFrame 1000 Dimensions

Model	Height		Width		Depth		Weight	
	in	mm	in	mm	in	mm	lb	kg
SolaFrame 1000*	28.6	726	18.1	460	12.7	324	69.9	31.3
SolaFrame 1000 in Molded Case Insert	28.1	715	23.6	600	22	560	105.2	47.7

\*Does not include mounting hardware



## SolaFrame 1000 Power Table

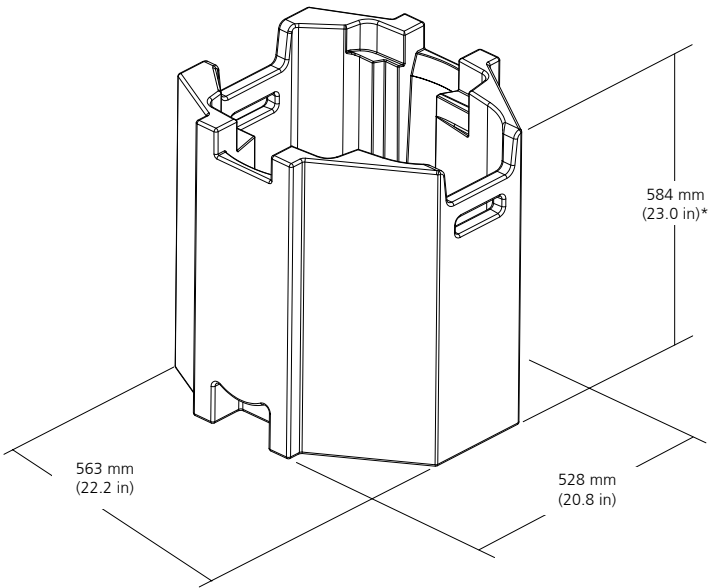
VAC	Amps	Hz	Watts	VA	PF
100	9.6	50	958	958	0.99
120	7.8	60	937	937	0.99
200	4.6	50	907	908	0.98
208	4.4	60	891	902	0.98
220	4.1	50	887	900	0.98
230	4.0	50	909	904	0.98
240	3.8	60	886	893	0.97

ADDITIONAL ORDERING INFORMATION

Additional Accessories

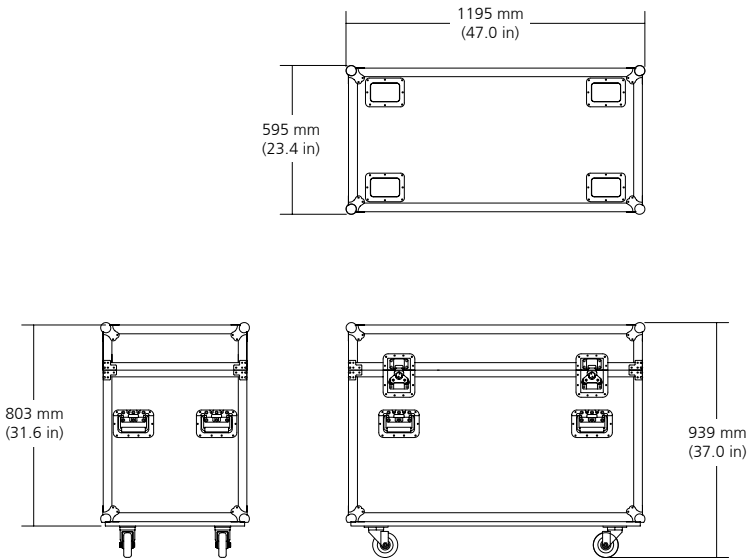
Model	Description
Z599A2001	Omega bracket, 180 mm Three-hole
H7150008	Omega bracket, 180 mm Single-hole (included)
H7300105	Galvanized safety cable with spring snap
RC-SF1	Road Case, fits up to two SolaFrame 1000 fixtures

Molded Case Insert Dimensions



\*For Road Case consideration the metal base on the SolaFrame 1000 extends 13 mm (.5 in) higher than the highest part of the Molded Insert.

Optional Road Case



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